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THE UNITED STATES PATENT AND TRADEMARK OFFICE

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In re application of:

STUART J. KNOWLES ET AL.

Serial No. 09/615,294

Filed: July 13, 2000

For: METHOD OF MANUFACTURING A  
TUNING FORK WITH REDUCED  
QUADRATURE ERROR AND  
SYMMETRICAL MASS BALANCING

Examiner:  
Anthony Dexter Tugbang

Group Art Unit 3729

RECEIVED

SEP 09 2002

August 29, 2002

TECHNOLOGY CENTER R3700

gwd9-10-03

AMENDMENT

Assistant Commissioner for Patents  
Washington, DC 20231

Sir:

In response to the Office Action mailed September 14, 2001, please amend this application as follows:

**IN THE CLAIMS**

Amend the Claims to read as follows:

Sub  
C5  
4. In a method of manufacturing a tuning fork for use in an inertial rate sensor, the steps of: forming a pair of elongated tines which have front and rear surfaces and are disposed symmetrically about an axis, and using balancing masses on the front surface of one tine and the rear surface of the other tine to eliminate quadrature displacement in the tines and maintain a balance in mass between the tines.

5. In a method of manufacturing a tuning fork for use in an inertial rate sensor, the steps of: forming a pair of elongated tines which have front and rear surfaces and are disposed symmetrically about an axis, applying mass elements to the tines, and removing portions of the mass elements from the front surface of one tine and from the rear surface of the other to eliminate quadrature displacement in the tines and maintained a balance in mass between the tines.

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